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**From:** Janet Samala [janet.samala@lacity.org]  
**Sent:** 3/1/2022 6:33:00 PM  
**To:** Cui, Xiaofei@Waterboards [Xiaofei.Cui@waterboards.ca.gov]; Lim, Jeong-Hee@Waterboards [Jeong-Hee.Lim@waterboards.ca.gov]; Mitschele, Becky [Mitschele.Becky@epa.gov]  
**CC:** Steven Nikaido [steven.nikaido@lacity.org]; Abraham Razon [abraham.razon@lacity.org]; HASSAN RAD [hassan.rad@lacity.org]; Timeyin Dafeta [timeyin.dafeta@lacity.org]; Thu-Van Ho [thu-van.ho@lacity.org]; Hi Sang Kim [hi-sang.kim@lacity.org]; Nasir Emami [nasir.emami@lacity.org]; Hubertus Cox [hubertus.cox@lacity.org]; Stephen Opot [stephen.opot@lacity.org]  
**Subject:** Fwd: Hyperion NPDES - Impact of pilot MBR testing

Hello Dr. Cui,

Please see our responses below. Our team will also be available on March 23 at 1:00 pm. Can you also please extend the meeting invitation to people copied in this email?

*1. What is the amount of discharge related to the pilot (i.e. RO volume per day)*

**Zero net discharges to the ocean outfall. All discharged from the Hyperion MBR Pilot Facility will be blended with primary effluent.**

**1 mgd of discharge to primary effluent pump station afterbay on an average basis.**

*2. Will the pilot be run continuously for a while or will it be start and stop?*

**Our current goal is to operate the pilot facility for 1 year starting July 2022 continuously. The future plans and duration for operation are yet to be determined.**

*3. Confirm that all RO will be routed back to headworks and not mixed with secondary effluent downstream*

**All discharged from the Hyperion MBR Pilot Facility will be blended with primary effluent. It will not be blended with secondary effluent.**

*4. Confirm that City doesn't expect any effluent changes during pilot operations*

**We do not expect any effluent discharges during pilot operation.**

*5. Concern regarding ammonia concentrations given they are close/or have exceeded their ammonia concentrations in the past (also concern regarding CECs, dioxin due to ESA past concerns)*

**This question is slightly vague. Please further clarify the question.**

**The MBR pilot facility will reduce ammonia and nitrogenous constituents concentrations in the secondary effluent since it's an Ndn process. The extent of removal is minimal since it only processes 1 mgd. Please note that this is a 'Pilot' facility mainly for the purpose of pathogen log reduction demonstration.**

Thank you. Please let us know if you need additional information.

**Kind Regards,**

Janet Valencia-Samala  
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Regulatory Affairs Division  
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----- Forwarded message -----

From: **Janet Samala** <[janet.samala@lacity.org](mailto:janet.samala@lacity.org)>

Date: Tue, Mar 1, 2022 at 8:34 AM

Subject: Re: Hyperion NPDES - Impact of pilot MBR testing

To: Cui, Xiaofei@Waterboards <[Xiaofei.Cui@waterboards.ca.gov](mailto:Xiaofei.Cui@waterboards.ca.gov)>

Cc: Lim, Jeong-Hee@Waterboards <[Jeong-Hee.Lim@waterboards.ca.gov](mailto:Jeong-Hee.Lim@waterboards.ca.gov)>, Becky Mitschele <[Mitschele.Becky@epa.gov](mailto:Mitschele.Becky@epa.gov)>

Good morning Dr. Cui,

Thank you for reaching out. I will get back to you on this and will also ask my team for their availability on 3/23.

Thanks.

**Kind Regards,**

Janet Valencia-Samala

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On Tue, Mar 1, 2022 at 8:29 AM Cui, Xiaofei@Waterboards <[Xiaofei.Cui@waterboards.ca.gov](mailto:Xiaofei.Cui@waterboards.ca.gov)> wrote:

Good morning Janet,

While working on the new order to renew the NPDES for HWRP, we have a few questions (below) regarding the impact of the pilot MBR testing on the regular discharge.

1. *What is the amount of discharge related to the pilot (i.e. RO volume per day)*
2. *Will the pilot be run continuously for a while or will it be start and stop?*
3. *Confirm that all RO will be routed back to headworks and not mixed with secondary effluent downstream*
4. *Confirm that City doesn't expect any effluent changes during pilot operations*
5. *Concern regarding ammonia concentrations given they are close/or have exceeded their ammonia concentrations in the past (also concern regarding CECs, dioxin due to ESA past concerns)*

Can we schedule a conference call on March 23<sup>rd</sup> at 1 pm? Below is the suggested agenda:

1. *Intros*
2. *Review pilot operations and flow diagram*
  - a. *Brine discharge amount/volume*
  - b. *Brine discharge data/modeling – changes in effluent quality (specifically ammonia concentrations)*
  - c. *Timing, frequency and length of testing*
3. *Next steps*

Thanks,

Xiaofei